

IN THE CLAIMS:

Please cancel claims 1-3, 9, 20 and 22-23 without prejudice to or disclaimer of the subject matter recited therein.

Please amend claims 4, 10, 11, and 21 as follows:

LISTING OF CURRENT CLAIMS

Claims 1-3. (Canceled)

Claim 4. (Currently Amended) ~~A multi-meandered antenna with multiple bands and single input as claimed in claim 1;~~ A multi-meandered antenna with multiple bands and single input using in a vehicle wireless communication environment, comprises:

5 an input end, coupled to a metal body of said vehicle for getting a wireless signal; and

at least one meandered antenna, coupled to said input end for transmitting or receiving said wireless signal;

whereby, said multi-meandered antenna with multiple bands and single input
10 can satisfy the various wireless communication requirements of said vehicle after combining, wherein the shape of said meandered antenna ~~is: the~~ includes a first end of said meandered antenna extending right a first horizontal segment and extending upward a first vertical segment, extending left a second horizontal segment and extending upward a second vertical segment, extending right a third
15 horizontal segment and extending downward a third vertical segment, and extending left a fourth horizontal segment and extending downward a fourth vertical segment.

Claim 5. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 4, wherein the lengths of said first vertical segment, said second vertical segment, said third vertical segment and said fourth vertical segment are equal.

Claim 6. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 4, wherein the lengths of said first horizontal segment and said second horizontal segment are equal.

Claim 7. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 4, wherein said input fed into the right side of said third horizontal segment at about 1/3 length.

Claim 8. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 4, wherein the lengths of said third horizontal segment is greater than the length of said first horizontal segment and greater than the length of said fourth horizontal segment.

Claim 9. (Canceled)

Claim 10. (Currently Amended) ~~A multi-meandered antenna with multiple bands and single input as claimed in claim 9;~~ A multi-meandered antenna with multiple bands and single input using in a vehicle wireless communication environment, comprises:

5 an input end, coupled to a metal body of said vehicle for getting a wireless signal; and

at least one meandered antenna, coupled to said input end for transmitting or receiving said wireless signal;

whereby, said multi-meandered antenna with multiple bands and single input
10 can satisfy the various wireless communication requirements of said vehicle after combining, wherein said at least one meandered antenna further comprises a first meandered antenna and a second meandered antenna, wherein the shape of said
15 first meandered antenna is: the first end of said first meandered antenna extending right a first horizontal segment and extending upward a first vertical segment,
extending left a second horizontal segment and extending upward a second vertical segment, extending right a third horizontal segment and extending downward a third

vertical segment, extending left a fourth horizontal segment and extending downward a fourth vertical segment and extending right a fifth horizontal segment.

Claim 11. (Currently Amended) ~~A multi-meandered antenna with multiple bands and single input as claimed in claim 9;~~ A multi-meandered antenna with multiple bands and single input using in a vehicle wireless communication environment, comprises:

5 an input end, coupled to a metal body of said vehicle for getting a wireless signal; and

at least one meandered antenna, coupled to said input end for transmitting or receiving said wireless signal;

whereby, said multi-meandered antenna with multiple bands and single input
10 can satisfy the various wireless communication requirements of said vehicle after combining, wherein said at least one meandered antenna further comprises a first meandered antenna and a second meandered antenna, wherein the shape of said
 second meandered antenna is: the first end of said second meandered antenna extending right a first horizontal segment and extending upward a first vertical
15 segment, extending left a second horizontal segment and extending upward a second vertical segment, extending right a third horizontal segment and extending
 downward a third vertical segment and extending left a fourth horizontal segment.

Claim 12. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 10, wherein the lengths of said first horizontal segment and said second horizontal segment are equal.

Claim 13. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 10, wherein the lengths of said third vertical segment is greater than the length of said second vertical segment and greater than the length of said first vertical segment and greater than the length of said fourth vertical segment.

Claim 14. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 10, wherein the length of said third horizontal segment is greater than the length of said fourth horizontal segment and greater than the length of said first horizontal segment and greater than the length of said fifth horizontal segment.

Claim 15. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 10, wherein said input end is fed into the right side of said third horizontal segment at about $1/3$ length.

Claim 16. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 11, wherein the lengths of said first horizontal segment and said second horizontal segment are equal.

Claim 17. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 11, wherein the lengths of said first vertical segment, said second vertical segment and said third vertical segment are equal.

Claim 18. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 11, wherein the length of said third horizontal segment is greater than the length of said first horizontal segment and greater than the length of said fourth horizontal segment.

Claim 19. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 11, wherein said input end is fed into the right side of said third horizontal segment at about $1/3$ length.

Claim 20. (Canceled)

Claim 21. (Currently Amended) ~~A multi-meandered antenna with multiple bands and single input as claimed in claim 20;~~ A multi-meandered antenna with multiple bands and single input using in a vehicle wireless communication environment, comprises:

5 an input end, coupled to a metal body of said vehicle for getting a wireless signal;

at least one meandered antenna, coupled to said input end for transmitting or receiving said wireless signal; and

10 a loop antenna, coupled to said input end for enclosing said meandered antenna therein;

whereby, said multi-meandered antenna with multiple bands and single input can satisfy the various wireless communication requirements of said vehicle by combining said meandered antenna with said loop antenna, wherein the shape of said meandered antenna is: the first end of said meandered antenna extending right
15 a first horizontal segment and extending upward a first vertical segment, extending left a second horizontal segment and extending upward a second vertical segment, extending right a third horizontal segment and extending downward a third vertical segment, and extending left a fourth horizontal segment and extending downward a fourth vertical segment.

Claims 22-23. (Canceled)

Claim 24. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 21, wherein the lengths of said first vertical segment, said second vertical segment, said third vertical segment and said fourth vertical segment are equal.

Claim 25. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 21, wherein the lengths of said first horizontal segment and said second horizontal segment are equal.

Claim 26. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 21, wherein said input end is fed into the right side of said third horizontal segment at about $1/3$ length.

Claim 27. (Original) A multi-meandered antenna with multiple bands and single input as claimed in claim 21, wherein the length of said third horizontal segment is greater than the length of said first horizontal segment and greater than the length of said fourth horizontal segment.